

Title (en)  
Diaphragm device.

Title (de)  
Blenden-Mechanismus.

Title (fr)  
Dispositif de diaphragme.

Publication  
**EP 0566383 A1 19931020 (EN)**

Application  
**EP 93302892 A 19930414**

Priority  
JP 9505692 A 19920415

Abstract (en)  
In the optical system, at least a part of at least one of the diaphragm plates is composed of a neutral density filter for causing a difference in quantity of light in a peripheral part and a central part of luminous flux passing the diaphragm, and by varying the position of each diaphragm plate, the quantity of transmitted light is adjusted, so that deterioration of MTF characteristic due to diffraction can be avoided even when the diaphragm is small, while the depth of field is maintained. <IMAGE>

IPC 1-7  
**G03B 9/06**; **C12P 21/02**; **C07K 13/00**

IPC 8 full level  
**G03B 9/06** (2006.01); **H04N 5/238** (2006.01)

CPC (source: EP KR)  
**G03B 9/06** (2013.01 - EP); **H04N 23/75** (2023.01 - KR)

Citation (search report)  
• [X] US 4113359 A 19780912 - KOIKE HIROSHI, et al  
• [X] PATENT ABSTRACTS OF JAPAN vol. 14, no. 345 (P-1083)26 July 1990 & JP-A-02 123 335 ( FUJI ) 10 May 1990  
• [A] PATENT ABSTRACTS OF JAPAN vol. 14, no. 253 (P-1054)30 May 1990 & JP-A-02 067 530 ( CANON ) 7 March 1990

Cited by  
US6356304B1; CN102971666A; US8749693B2

Designated contracting state (EPC)  
DE FR GB NL

DOCDB simple family (publication)  
**EP 0566383 A1 19931020**; **EP 0566383 B1 19970618**; DE 69311621 D1 19970724; DE 69311621 T2 19980102; JP H06289458 A 19941018; KR 940006390 A 19940323

DOCDB simple family (application)  
**EP 93302892 A 19930414**; DE 69311621 T 19930414; JP 9505692 A 19920415; KR 930006269 A 19930415